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References

40 U.S. CFR (U.S. Code of Federal Regulations), Part 136, Proposed Rules. *Fed. Regist.* 44: 69534 (1979).

40 U.S. CFR (U.S. Code of Federal Regulations), Part 58, Appendix E, U.S. Government Printing Office, Washington, DC, July 1 (1988).

40 U.S. CFR (U.S. Code of Federal Regulations), Part 53, U.S. Government Printing Office, Washington, DC, July 1 (1993).

Allen, G.A., and R.F. Burton, "Comparison of the TEOM® continuous mass analyzer with gravimetric respirable mass", *Proc. 1991 US EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants*, Publication VIP-21, Air & Waste Management Association, Pittsburgh, PA, pp. 166-171 (1991).

Allen, G., C. Sioutas, P. Koutrakis, R. Reiss, F.W. Lurmann, and P.T. Roberts, "Evaluation of the TEOM® method for measurement of ambient particulate mass in urban areas", *J. Air Waste Manage. Assoc.* 47: 682-689 (1997).

Aponte-Pons, M.M., and A.A. Miller, "Air pollution and the Texas-Mexico border: recent research initiatives", *Proc. 87th Annual Meeting & Exhibition of the Air & Waste Management Association*, Paper 94-TA195.01P, Air & Waste Management Association, Pittsburgh, PA (1994).

ATSDR (Agency for Toxic Substances and Disease Registry), *Toxicological Profile for Polycyclic Aromatic Hydrocarbons*, Agency for Toxic Substances and Disease Registry, Atlanta, GA, August (1995).

ATSDR (Agency for Toxic Substances and Disease Registry), *Toxicological Profile for Benzene*, Agency for Toxic Substances and Disease Registry, Atlanta, GA, September (1997).

Baker, L.W., D.L. Fitzell, J.N. Seiber, T.R. Parker, T. Shibamoto, M.W. Poore, K.E. Longley, R.P. Tomlin, R. Propper, and D.W. Duncan, "Ambient air concentrations of pesticides in California", *Environ. Sci. Technol.* 30: 1365-1368 (1996).

Birch, M.E., and R.A. Cary, "Elemental carbon-based method for monitoring occupational exposures to particulate diesel exhaust", *Aerosol Sci. Technol.* 25: 221-241 (1996).

Birch, M.E., "Analysis of carbonaceous aerosols: interlaboratory comparison", *Analyst* 123: 851-857.

Brodzinsky, R., and H.B. Singh, *Volatile Organic Chemicals in the Atmosphere: an Assessment of Available Data*, EPA-600/3-83-027a, U.S. Environmental Protection Agency, Research Triangle Park, April (1983).

Bryan, R.J., "Air quality monitoring", *Air Pollution*, Second edition, Volume II, A.C. Stern, ed., Academic Press, New York (1968)

Burgoyne, T.W., and R.A. Hites, "Effects of temperature and wind direction on the atmospheric concentrations of "-Endosulfan", *Environ. Sci. Technol.* 27: 910-914 (1993).

Cahill, T.A., L.L. Ashbaugh, R.A. Eldred, P.J. Feeney, B.H. Kusko, and R.G. Flochinni, "Comparisons between size-segregated resuspended soil samples and ambient aerosols in the western United States", *Atmospheric Aerosol. Source/Air Quality Relationships*, E.S. Macias and P.K. Hopke, eds., American Chemical Society, Washington, DC (1981).

Camann, D.E., P.W. Geno, H.J. Harding, N.J. Giardino, and A.E. Bond, "Measurements to assess exposure of the farmer and family to agricultural pesticides", *Proc. 1993 U.S. EPA/A&WMA International Specialty Conference on Measurement of Toxic and Related Air Pollutants*, Publication VIP-34, Air & Waste Management Association, Pittsburgh, PA, pp. 712-717 (1993).

Charlson, R.J., J.E. Lovelock, M.O. Andreae, and S.G. Warren, "Oceanic phytoplankton, atmospheric sulphur, cloud albedo and climate", *Nature* 326:655-661 (1987).

Chow, J.C., "Measurement methods to determine compliance with ambient air quality standards for suspended particles", *J. Air Waste Manage. Assoc.* 45: 320-382 (1995).

Chuang, J.C., G.A. Mack, M.R. Kuhlman, and N.K. Wilson, "Polycyclic aromatic hydrocarbons and their derivatives in indoor and outdoor air in an eight-home study", *Atmos. Environ.* 25B: 369-380 (1991).

Church, T.M., J.M. Tramontano, J.R. Scudlark, T.D. Jickells, J.J. Tokos, Jr., A.H. Knap, and J.N. Galloway, "The wet deposition of trace metals to the Western Atlantic Ocean at the Mid-Atlantic Coast and on Bermuda", *Atmos. Environ.* 18: 2657-2664 (1984).

Ciccioli, P. "VOCs and air pollution", *Chemistry and Analysis of Volatile Organic Compounds in the Environment*, H.J.T. Bloemen and J. Burn, eds., Blackie Academic & Professional, Glasgow (1993).

-
- Clayton, C.A., R.L. Perritt, E.D. Pellizzari, K.W. Thomas, R.W. Whitmore, L.A. Wallace, H. Ozkaynak, and J.D. Spengler, "Particle Total Exposure Assessment Methodology (PTEAM) Study: Distributions of aerosol and elemental concentrations in personal indoor and outdoor air samples in a Southern California Community", *J. Exp. Anal. Environ. Epidemiol.* 3: 227-250 (1993).
- Comrie, A.C., "An all-season synoptic climatology of air pollution in the U.S.-Mexico border region", *Prof. Geographer* 48: 237-251 (1996).
- Cooper, H.B.H., Jr., J.A. Lopez, and J.M. Demo, "Chemical composition of acid precipitation in central Texas", *Water Air Soil Pollut.* 6: 351-359 (1976).
- Crescenti, G.H., "Meteorological measurements during the Lower Rio Grande Valley Environmental Study", *Environ. Int.* 23: 629-642 (1997).
- Czuczwa, J., C. Leuenberger, and W. Giger, "Seasonal and temporal changes of organic compounds in rain and snow", *Atmos. Environ.* 22: 907-916 (1988).
- Cullis, C.F., and M.M. Hirschler, "Atmospheric sulfur: natural and man-made sources", *Atmos. Environ.* 14: 1263-1278 (1980).
- Davis, B.L., L.R. Johnson, R.K. Stevens, W.J. Courtney, and D.W. Safriet, "The quartz content and elemental composition of aerosols from selected sites of the EPA Inhalable Particle Network", *Atmos. Environ.* 18: 771-782 (1984).
- Dickson, R.J., W.R. Oliver, and H.W. Balentine, "Emission estimates for assessing visual air quality on the Colorado Plateau", *J. Air Waste Manage. Assoc.* 47: 185-193 (1997).
- Dockery, D.W., C.A. Pope, III, X. Xu, J.D. Spengler, J.H. Ware, M.E. Fay, B.G. Ferris, Jr., and F.E. Speizer, "An association between air pollution and mortality in six U.S. cities", *N. Engl. J. Med.* 329: 1753-1759.
- Doskey, P.V., J.A. Porter, and P.A. Scheff, "Source fingerprints for volatile non-methane hydrocarbons", *J. Air Waste Manage. Assoc.* 42: 1437-1445 (1992).
- Driscoll, W., P. Mushak, J. Garfias, and S.J. Rothenberg, "Reducing lead in gasoline. Mexico's experience", *Environ. Sci. Technol.* 26: 1702-1705 (1992).
- Dwyer, A., *On the Line. Life on the US-Mexican Border*, Latin America Bureau (Research and Action), London (1994).
- Dzubay, T.G., and R.K. Stevens, "Ambient air analysis of dichotomous sampler and x-ray fluorescence spectrometer", *Environ. Sci. Technol.* 9: 663-668 (1975).

Dzubay, T.G., R.K. Stevens, C.W. Lewis, D.H. Hern, W.J. Courtney, J.W. Tesch, and M.A. Mason, "Visibility and aerosol composition in Houston, Texas", *Environ. Sci. Technol.* 16: 514-525 (1982).

Dzubay, T.G., R.K. Stevens, W.D. Balfour, H.J. Williamson, J.A. Cooper, J.E. Core, R.T. DeCesar, E.R. Crutcher, S.L. Dattner, B.L. Davis, S.L. Heisler, J.J. Shah, P.K. Hopke, and D.L. Johnson, "Interlaboratory comparison of receptor model results for Houston aerosol", *Atmos. Environ.* 18: 1555-1566 (1984).

Dzubay, T.G., R.K. Stevens, G.E. Gordon, I. Olmez, A.E. Sheffield, and W.J. Courtney, "A composite receptor method applied to Philadelphia aerosol", *Environ. Sci. Technol.* 22: 46-52 (1988).

Dzubay, T.G., and R.K. Stevens, "Sampling and analysis methods for PM-10 aerosol", *Receptor Modeling for Air Quality Management*, Hopke, P.K., ed., Elsevier, Amsterdam (1991).

Edgerton, S.A., M.W. Holdren, D.L. Smith, and J.J. Shah, "Inter-urban comparison of ambient volatile organic compound concentrations in U.S. cities", *J. Air Waste Manage. Assoc.* 39: 729-732 (1989).

Ellenson, W.D., S. Mukerjee, R.K. Stevens, R.D. Willis, D.S. Shadwick, M.C. Somerville, and R.G. Lewis, "An environmental scoping study in the Lower Rio Grande Valley of Texas. II. Assessment of transboundary pollution transport and other emission activities by air quality monitoring", *Environ. Int.* 23: 643-655 (1997).

Too strict or not strict enough? Which communities are affected by the new standards? *EM*: 16-22, January (1997).

Special issue. Environmental Aspects of the Lower Rio Grande Valley. *Environ. Int.* 23: 593-744 (1997).

ESE Environmental, Inc., *Standard Operating Procedures. Characterization of PM_{10/2.5} Aerosols*, ESE No. 3196614GB, ESE Environmental, Inc., Durham, NC (1996).

Evans, J.S., and D.W. Cooper, "An inventory of particulate emission from open sources", *J. Air Pollut. Control Assoc.* 30: 1298-1303 (1980).

Farm Chemicals Handbook '96, Vol. 82, Meister Publishing Co., Willoughby, OH (1996).

Feldstein, M., and S. Singer, "The border babies", *Time* 149: 72, May 26 (1997).

Franz, T.P., S.J. Eisenreich, and M.B. Swanson, "Evaluation of precipitation samplers for assessing atmospheric fluxes of trace organic contaminants", *Chemosphere* 23: 343-361 (1991).

Freeman, D.J., and F.C.R. Cattell, "Woodburning as a source of atmospheric polycyclic aromatic hydrocarbons", *Environ. Sci. Technol.* 24: 1581-1585 (1990).

Galloway, J.N., J.D. Thornton, S.A. Norton, H.L. Volchok, and R.A.N. McLean, "Trace metals in atmospheric deposition: a review and assessment", *Atmos. Environ.* 16: 1677-1700 (1982).

GAO (U.S. General Accounting Office), *Pesticides: Comparison of U.S. and Mexican Pesticide Standards and Enforcement*, GAO/RCED-92-140, U.S. General Accounting Office, Washington, DC, June (1992).

Gatz, D.F., "Urban precipitation chemistry: a review and synthesis", *Atmos. Environ.* 25B: 1-15 (1991).

Gelencsér, A., K. Siszler, and J. Hlavay, "Toluene-benzene concentration ratio as a tool for characterizing the distance from vehicular emission sources", *Environ. Sci. Technol.* 31: 2869-2872 (1997).

Ghassemi, M., P. Painter, M. Powers, N.B. Akesson, and M. Dellarco, "Estimating drift and exposure due to aerial application of insecticides in forests", *Environ. Sci. Technol.* 16: 510-514 (1982).

Godish, T., *Air Quality*, Third edition, Lewis Publishers, Boca Raton, FL (1997).

Graedel, T.E., *Chemical Compounds in the Atmosphere*. New York: Academic Press (1978).

Halsall, C.J., P.J. Coleman, B.J. Davis, V. Burnett, K.S. Waterhouse, P. Harding-Jones, and K.C. Jones, "Polycyclic aromatic hydrocarbons in U.K. urban air", *Environ. Sci. Technol.* 28: 2380-2386 (1994).

Hamilton, R.S., and T.A. Mansfield, "Airborne particulate elemental carbon: its sources, transport and contribution to dark smoke and soiling", *Atmos. Environ.* 25A: 715-723 (1991).

Helmers, E., and O. Schrems, "Wet deposition of metals to the tropical North and South Atlantic Ocean", *Atmos. Environ.* 29: 2475-2484 (1995).

Hildemann, L.M., G.R. Markowski, and G.R. Cass, "Chemical composition of emissions from urban sources of fine organic aerosol", *Environ. Sci. Technol.* 25: 744-759 (1991).

Hoff, R.M., D.C.G. Muir, and N.P. Grift, "Annual cycle of polychlorinated biphenyls and organohalogen pesticides in air in Southern Ontario. 1. Air concentration data", *Environ. Sci. Technol.* 26: 266-275 (1992).

Hopke, P.K., *Receptor Modeling in Environmental Chemistry*, John Wiley & Sons, New York (1985).

Hopke, P.K., and G.S. Casuccio, "Scanning electron microscopy", *Data Handling in Science and Technology. 7. Receptor Modeling for Air Quality Management*, P.K. Hopke, ed., Elsevier, Amsterdam (1991).

IARC (International Agency for Research on Cancer), “Some Industrial Chemicals and Dyestuffs”, *IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans*, Volume 29, International Agency for Research on Cancer, Lyon, France, May (1982)

IARC (International Agency for Research on Cancer), “Allyl Compounds, Aldehydes, Epoxides and Peroxides”, *IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans*, Volume 36, International Agency for Research on Cancer, Lyon, France, February (1985a).

IARC (International Agency for Research on Cancer), “Some Chemicals Used in Plastics and Elastomers”, *IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans*, Volume 39, International Agency for Research on Cancer, Lyon, France, June (1985b).

Jehn, K.H., “Continentiality in the Texas coastal zone”, *Mon. Wea. Rev.* 105: 908-914 (1977).

Jenkins, B.M., A.D. Jones, S.Q. Turn, and R.B. Williams, “Particle concentrations and species intercorrelations for polycyclic aromatic hydrocarbons (PAH) emitted during biomass burning”, *Atmos. Environ.* 30: 3825-3835 (1996).

Keeler, G.J., W.W. Brachaczek, R.A. Gorse, Jr., S.M. Japar, and W.R. Pierson, “Effect of ambient humidity on dichotomous sampler coarse/fine ratios”, *Atmos. Environ.* 22: 1715-1720 (1988).

Kellogg, R.B., *Standard Operating Procedure for the Source Apportionment Research Branch LBL Energy Dispersive X-ray Fluorescence Spectrometer*, ManTech Report SP-4420-93-04, ManTech Environmental Technology, Inc., Research Triangle Park, NC (1993).

Kellogg, R.B., *Standard Operating Procedure for the Analysis of Aerosols on Filters with the Source Apportionment Research Branch Kevex Energy Dispersive X-ray Fluorescence Spectrometer*, SOP No. 2, ManTech Environmental Technology, Inc., Research Triangle Park, NC (1994).

Kelly, T.J., M. Ramamurthi, A.J. Pollack, and C.W. Spicer, *Ambient Concentration Summaries for Clean Air Act Title III Hazardous Air Pollutants*, Final Report from Battelle to U.S. Environmental Protection Agency, EPA/600/R-94/090, U.S. Environmental Protection Agency, Research Triangle Park, NC (1993).

Kelly, T.J., R. Mukund, C.W. Spicer, and A.J. Pollack, “Concentrations and transformations of hazardous air pollutants”, *Environ. Sci. Technol.* 28: 378A-387A (1994).

Kenski, D.M., R.A. Wadden, P.A. Scheff, and W.A. Lonneman, “Receptor modeling of VOCs in Chicago, Beaumont, and Detroit”, Paper 91-82.3, *Proceedings of the 84th Annual Meeting & Exhibition of the Air & Waste Management Association*, Air & Waste Management Association, Pittsburgh, PA (1991).

Kenski, D.M., R.A. Wadden, P.A. Scheff, and W.A. Lonneman, "Receptor modeling of VOCs in Atlanta, Georgia", Paper 92-104.06, *Proceedings of the 85th Annual Meeting & Exhibition of the Air & Waste Management Association*, Air & Waste Management Association, Pittsburgh, PA (1992).

Khalili, N.R., P.A. Scheff, and T.M. Holsen, "PAH source fingerprints for coke ovens, diesel and gasoline engines, highway tunnels, and wood combustion emissions", *Atmos. Environ.* 29: 533-542 (1995).

Lemieux, P.M., and J.V. Ryan, "Characterization of air pollutants emitted from a simulated scrap tire fire", *J. Air Waste Manage. Assoc.* 43: 1106-1115 (1993).

Lewis, C.W., and W. Einfeld, Origins of carbonaceous aerosol in Denver and Albuquerque during winter", *Environ. Int.* 11:243-247 (1985).

Lewis, C.W., R.E. Baumgardner, R.E., R.K. Stevens, and G.M. Russwurm, "Receptor modeling of Denver winter haze", *Environ. Sci. Technol.* 20:1126-1136 (1986).

Lewis, C.W., "Sources of air pollutants indoors: VOC and fine particle species", *J. Exp. Anal. Environ. Epidemiol.* 1: 31-44 (1991).

Lewis, C.W., and R.B. Zweidinger, "Apportionment of residential indoor aerosol, VOC and aldehyde species to indoor and outdoor sources, and their source strengths", *Atmos. Environ.* 26A: 2179-2184 (1992).

Lewis, C.W., T.L. Conner, R.K. Stevens, J.F. Collins, and R.C. Henry, "Receptor modeling of volatile hydrocarbons measured in the 1990 Atlanta Ozone Precursor Study", Paper 93-TP-58.04, *Proceedings of the 86th Annual Meeting & Exhibition of the Air & Waste Management Association*, Air & Waste Management Association, Pittsburgh, PA (1993).

Lewis, R.G. T.J. Kelly, J.C. Chuang, P.J. Callahan, and R.W. Coutant, "Phase distributions of airborne polycyclic aromatic hydrocarbons in two U.S. cities", Paper IU-11E.02, *Proceedings of the 9th World Clean Air Congress & Exhibition*, Clean Air Congress, Montreal, Canada (1992).

Lewis, R.G., and S.M. Gordon, "Sampling for organic chemicals in air", *Principles of Environmental Sampling*, L.H. Keith, ed., American Chemical Society, Washington, DC (1996).

Li, C.K., and R.M. Kamens, "The use of polycyclic aromatic hydrocarbons as source signatures in receptor modeling", *Atmos. Environ.* 27A: 523-532 (1993).

Lioy, P.J., T.J. Kniep, and J.M. Daisey, J.M., *Receptor Model Technical Series VI: A Guide to the Use of Factor Analysis and Multiple Regression (FA/MR) Techniques in Source Apportionment*, EPA-450/4-85-007, U.S. Environmental Protection Agency, Research Triangle Park, NC (1985).

Lockamy, T.A., Letter dated August 10 (1998).

Lorenz, E. (Alma College; Alma, MI 48801), Personal communication and sample provided, June (1998).

Lowenthal, D.H., B. Zielinska, J.C. Chow, J.G. Watson, M. Gautam, D.H. Ferguson, G.R. Neuroth, and K.D. Stevens, "Characterization of heavy-duty diesel vehicle emissions", *Atmos. Environ.* 28: 731-743 (1994).

Malm, W.C., J.F. Sisler, D. Huffman, R.A. Eldred, and T.A. Cahill, "Spatial and seasonal trends in particle concentration and optical extinction in the United States", *J. Geophys. Res.* 99: 1347-1370 (1994).

Marty, J.C., M.J. Tissier, and A. Saliot, "Gaseous and particulate polycyclic aromatic hydrocarbons (PAH) from the marine atmosphere", *Atmos. Environ.* 18: 2183-2190 (1984).

McClenney, W.A., J.D. Pleil, G.F. Evans, K.D. Oliver, M.W. Holdren, and W.T. Winberry, "Canister-based method for monitoring toxic VOCs in ambient air", *J. Air Waste Manage. Assoc.* 41: 1308-1318 (1991).

McConnell, M.A., L.M. Hallberg, and M.S. Legator, "Evaluation of the use of effects screening levels to ensure public health: a case study in Texas", *J. Clean Technol. Environ. Toxicol. Occup. Med.* 6: 23-58 (1997).

Mejia-Velazquez, G.M., and M. Rodriguez-Gallegos, "Characteristics and estimated air pollutant emissions from fuel burning by the industry and vehicles in the Matamoros-Reynosa border region", *Environ. Int.* 23: 733-744 (1997).

Mejía-Velázquez, G.M., H.L.C. Meuzelaar, et al., *Characterization and Dynamics of Air Pollutants in the Southeastern Mexico-U.S. Border Area*, Project No. AQ95-10, Available from Southwest Center for Environmental Research and Policy, University of Utah, 122 S. Central Campus Dr., Rm 214, Salt Lake City, UT 84112-06160 (1997).

Mészáros, A., and K. Vissy, "Concentration, size distribution and chemical nature of atmospheric aerosol particles in remote ocean areas", *Aerosol Sci.* 5:101-109 (1974).

Muhlbauer, J.L., and R.L. Williams, "Fireplaces, furnaces and vehicles as emission sources of particulate carbon", *Particulate Carbon, Atmospheric Life Cycle*, G.T. Wolff and R.L. Klimisch, eds., Plenum Press, New York (1982).

Mukerjee, S., W.D. Ellenson, R.G. Lewis, R.K. Stevens, M.C. Somerville, and D.S. Shadwick, "An environmental scoping study in the Lower Rio Grande Valley of Texas. I. Comparative assessment of air sampling methods", *Environ. Int.* 23: 611-628 (1997a).

Mukerjee, S., W.D. Ellenson, R.G. Lewis, R.K. Stevens, M.C. Somerville, D.S. Shadwick, and R.D. Willis, "An environmental scoping study in the Lower Rio Grande Valley of Texas. III. Residential microenvironmental monitoring for air, house dust, and soil", *Environ. Int.* 23: 657-673 (1997b).

National Research Council. *Polycyclic Aromatic Hydrocarbons: Evaluation of Sources and Effects*. National Academy Press, Washington, DC (1983).

Nations, B.K., and G.R. Hallberg, "Pesticides in Iowa precipitation", *J. Environ. Qual.* 21: 486-492 (1992).

Nelson, P.F., S.M. Quigley, and M.Y. Smith, "Sources of atmospheric hydrocarbons in Sydney: a quantitative determination using a source reconciliation technique", *Atmos. Environ.* 17: 439-449 (1983).

Norman, J.W., and A.N. Sparks, *Suggested Insecticides for Management of Cotton Insects in the Lower Rio Grande Valley - 1995*, B-1210A, Texas Agricultural Extension Service, College Station, TX (1995).

Norman, J.W., and A.N. Sparks, *Suggested Insecticides for Management of Cotton Insects in the Lower Rio Grande Valley - 1997*, B-1210A, Texas Agricultural Extension Service, College Station, TX (1997).

Olmez, I., A.E. Sheffield, G.E. Gordon, J.E. Houck, L.C. Pritchett, J.A. Cooper, T.G. Dzubay, and R.L. Bennett, "Composition of particles from selected sources in Philadelphia for receptor modeling applications", *J. Air Poll. Control Assoc.* 38: 1392-1402 (1988).

Ondov, J.M., W.H. Zoller, and G.E. Gordon, "Trace element emissions on aerosols from motor vehicles", *Environ. Sci. Technol.* 16: 318-328 (1982).

Özkaynak, H., J. Xue, R. Weker, D. Butler, P. Koutrakis, and J. Spengler, *The Particle TEAM (PTEAM) Study: Analysis of the Data*. Final Report. Volume III. EPA/600/R-95/098. US Environmental Protection Agency, Washington, DC, August (1996).

Parekh, P.P., and L. Husain, "Fe/Mg ratio: a signature for local-fired power plants", *Atmos. Environ.* 21: 1707-1712 (1987).

Parungo, F., C. Nagamoto, S. Hoyt, A. Bravo, "The investigation of air quality and acid rain over the Gulf of Mexico", *Atmos. Environ.* 24A: 109-123 (1990).

Patashnick, H., and E.G. Rupprecht, "Continuous PM-10 measurements using the tapered element oscillating microbalance", *J. Air Waste Manage. Assoc.* 41: 1079-1083 (1991).

Patashnick, H. Letters to the editor (Regarding the paper "Evaluation of the TEOM Method for Measurement of Ambient Particulate Mass in Urban Areas," by Allen et al.), *J. Air Waste Manage. Assoc.* 48: 195-197, 199-200 (1998).

Perry, K.D., T.A. Cahill, R.A. Eldred, D.D. Dutcher, and T.E. Gill, "Long-range transport of North African dust to the eastern United States", *J. Geophys. Res.* 102: 11225-11238 (1997).

Plimmer, J.R., "Pesticide loss to the atmosphere", *Am. J. Indust. Med.* 18: 461-466 (1990).

Poster, D.L., and J.E. Baker, "Influence of submicron particles on hydrophobic organic contaminants in precipitation. 1. Concentrations and distributions of polycyclic aromatic hydrocarbons and polychlorinated biphenyls in rainwater", *Environ. Sci. Technol.* 30: 341-348 (1996).

Purdue, L.J., J.A. Reagan, W.A. Lonneman, T.C. Lawless, R.J. Drago, G.M. Zalaquet, M.W. Holdren, D.L. Smith, A.D. Pate, B.E. Buxton, and C.W. Spicer, *Atlanta Ozone Precursor Monitoring Study Data Report*, EPA/600/R-92/157, U.S. Environmental Protection Agency, Research Triangle Park, NC, September (1992).

Purdue, L., H. Bloemen, and J. Bowser, *The NERL/RTP PM Research Monitoring Network. Annual Report*, February 1995 through January 1996 (draft), available from QST Environmental, Inc., 4915 Prospectus Dr., Ste. J, Durham, NC 27711 (1997).

Rhodes, J.R., A.H. Pradzynski, C.B. Hunter, J.S. Payne, and J.L. Lindgren, "Energy dispersive X-ray fluorescence analysis of air particulates in Texas", *Environ. Sci. Technol.* 6: 922-927 (1972).

Rogge, W.F., L.M. Hildemann, M.A. Mazurek, G.R. Cass, and B.R.T. Simonelt, "Sources of fine organic aerosol. 2. Noncatalyst and catalyst-equipped automobiles and heavy-duty diesel trucks", *Environ. Sci. Technol.* 27: 636-651 (1993).

Saltzman, E.S., D.L. Savoie, R.G. Zika, and J.M. Prospero, "Methane sulfonic acid in the marine atmosphere", *J. Geophys. Res.* 88: 10897-10902 (1983).

Savoie, D.L., and J.M. Prospero, "Aerosol concentration statistics for the northern tropical Atlantic", *J. Geophys. Res.* 82: 5954-5964 (1977).

Schaefer, G., W. Hamilton, and C.V. Mathai, "Implementing the revised NAAQS and FACA Subcommittee for ozone, particulate matter, and regional haze", *EM (Environmental Manager)* October: 22-28 (1997).

Scheff, P.A., and R.A. Wadden, "Receptor modeling of volatile organic compounds. 1. Emission inventory and validation", *Environ. Sci. Technol.* 27: 617-625 (1993).

Schütz, L. "Long range transport of desert dust with special emphasis on the Sahara", *Aerosols: Anthropogenic and Natural, Sources and Transport*, T.J.Kniep and P.J. Lioy, *Ann. N.Y. Acad. Sci.* 338: 515-532 (1980).

Shah, J.J., and E.K. Heyerdahl, *National Ambient Volatile Organic Compounds (VOCs) Data Base Update*, EPA/600/3-88/010a, U.S. Environmental Protection Agency, Research Triangle Park, NC, March (1988).

Shah, J., and D. Joseph, *Draft report. National Ambient VOC Data Base Update: 3.0*, Contract No. 68-D80082, G₂ Environmental, Inc., 3015 Oregon Knolls Dr. NW, Washington, DC 20015, May (1993).

Shah, J., and H.B. Singh, "Distribution of volatile organic chemicals in indoor and outdoor air. A national VOCs data base", *Environ. Sci. Technol.* 22: 1381-1388 (1988).

Shah, J.J., J.G. Watson, J.A. Cooper, and J.J. Huntzicker, "Aerosol chemical composition and light scattering in Portland, Oregon: the role of carbon", *Atmos. Environ.* 18: 235-240 (1984).

Shields, J., "Ambient air arsenic levels along the Texas-Mexico border", *J. Air Waste Manage. Assoc.* 41: 827-831 (1991).

Shreffler, J., and J. Suggs, "Particulate data from the first year of monitoring in Phoenix: Part II. Organic and Elemental Composition", *Proceedings of the 1997 US EPA/A&WMA Specialty Conference on Measurement of Toxic and Related Air Pollutants*, Vol. I, Publication VIP-74, Air & Waste Management Association, Pittsburgh, PA, pp. 421-430 (1997).

Singh, H.B., L.J. Salas, B.K. Cantrell, and R.M. Redmond, "Distribution of aromatic hydrocarbons in the ambient air", *Atmos. Environ.* 19: 1911-1919 (1985).

Spicer, C.W., B.E. Buxton, M.W. Holdren, D.L. Smith, T.J. Kelly, S.W. Rust, A.D. Pate, G.M. Sverdrup, and J.C. Chuang, "Variability of hazardous air pollutants in an urban area", *Atmos. Environ.* 30: 3443-3456 (1996).

Strachan, W.M.J., and H. Huneault, "Automated rain sampler for trace organic substances", *Environ. Sci. Technol.* 18: 127-130 (1984).

Streicher, J.J., *Air Concentrations and Inhalation Exposure to Pesticides in the Agricultural Health Pilot Study*, EPA/600/R-97/059, U.S. Environmental Protection Agency, Washington, DC, June (1997).

Sturges, W.T., and R.M. Harrison, "Bromine:lead ratios in airborne particles from urban and rural sites", *Atmos. Environ.* 20: 577-588 (1986a).

Sturges, W.T., and R.M. Harrison, "Bromine in marine aerosols and the origin, nature and quantity of natural atmospheric bromine", *Atmos. Environ.* 20: 1485-1496 (1986b).

Suggs, J., and J. Shreffler, "Particulate data from the first year of monitoring in Phoenix: Part I. Fine and coarse mass", *Proceedings of the 1997 U.S. EPA/A&WMA Specialty Conference on Measurement of Toxic and Related Air Pollutants*. Vol. I, Publication VIP-74, Air & Waste Management Association, Pittsburgh, PA, pp. 408-420 (1997).

Sweet, C.W., A. Weiss, and S.J. Vermette, "Atmospheric deposition of trace metals at three sites near the Great Lakes", *Water Air Soil Pollut.* 103: 423-439 (1998).

Tarr, J., *A Preliminary Air Dispersion Analysis of the Matamoros Toxic Chemical Cloud 1989-1992*, Stone Lions Environmental Corp., 944 Indian Peak Road #220, Rolling Hills Estates, CA 90274 (1994).

Texas Department of Agriculture, *Crop Sheets*, Texas Department of Agriculture, PO Box 12847, Austin, TX 78711 (1988).

Thurston, G.D., and J.D. Spengler, "A multivariate assessment of meteorological influences of inhalable particle source impacts", *J. Appl. Meteor.* 24: 1245-1256 (1985).

TNRCC (Texas Natural Resource Conservation Commission), *Quality Assurance Project Plan for Texas-Mexico Border Air Sampling*, RG-98, Texas Natural Resource Conservation Commission, Austin, TX (1986).

TNRCC (Texas Natural Resource Conservation Commission), *Air Monitoring Report. 1993*, AS-104, Texas Natural Resource Conservation Commission, Austin, TX, May (1996a).

TNRCC (Texas Natural Resource Conservation Commission), *Air Monitoring Report. 1994*. AS-125, Texas Natural Resource Conservation Commission, Austin, TX, November (1996b).

TNRCC (Texas Natural Resource Conservation Commission), *Community Air Toxics Monitoring Network Report. January-December 1995*, AS-111, Texas Natural Resource Conservation Commission, Austin, TX, February (1997a).

TNRCC (Texas Natural Resource Conservation Commission), *Air Monitoring Report. 1995*, AS-132. Texas Natural Resource Conservation Commission, Austin, TX, April (1997b).

TNRCC (Texas Natural Resource Conservation Commission), *Effects Screening Levels (ESLs) List* (Effective September 5, 1997). Available on the Internet at <http://www.tnrrcc.state.tx.us/exec/chiefeng/tara/>, September (1997c).

TNRCC (Texas Natural Resource Conservation Commission), *Air Monitoring Report. 1996.* AS-132/98, Texas Natural Resource Conservation Commission, Austin, TX, March (1998).

Tuncel, S.G., I. Olmez, J.R. Parrington, G.E. Gordon, and R.K. Stevens, "Composition of fine particle regional sulfate component in Shenandoah Valley", *Environ. Sci. Technol.* 19: 529-537 (1985).

U.S. EPA (U.S. Environmental Protection Agency), *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans*, QAMS-005/80, U.S. Environmental Protection Agency, Washington, DC, December 29 (1980).

U.S. EPA (U.S. Environmental Protection Agency), *Operations and Maintenance Manual for Precipitation Measurement Systems*, EPA/600/4-82-042b, U.S. Environmental Protection Agency, Research Triangle Park, NC, July (1986).

U.S. EPA (U.S. Environmental Protection Agency), *On-Site Meteorological Program Guidance for Regulatory Modeling Applications*, EPA-450/4-87-013, U.S. Environmental Protection Agency, Research Triangle Park, NC, June (1987).

U.S. EPA (U.S. Environmental Protection Agency), *Non-Occupational Pesticide Exposure Study (NOPES)*, Final Report, EPA/600/3-90/003, U.S. Environmental Protection Agency, Research Triangle Park, NC, January (1990a).

U.S. EPA (U.S. Environmental Protection Agency). *Section 2.10. Reference Method for the Determination of Particulate Matter as PM10 in the Atmosphere (Dichotomous Sampler Method)*, U.S. Environmental Protection Agency, Research Triangle Park, NC, April 11 (1990b).

U.S. EPA (U.S. Environmental Protection Agency), "Equivalent Designation EQPM-1090-079", *Fed. Regist.*, 43406, October 29 (1990c).

U.S. EPA (U.S. Environmental Protection Agency), *Summary. Environmental Plan for the Mexican-U.S. Border Area. First Stage (1992-1994)*, February (1992a).

U.S. EPA (U.S. Environmental Protection Agency). *Quality Assurance Handbook for Air Pollution Measurement Systems: Volume II. Ambient Air Specific Methods. Section 2.10: Dichotomous Sampler Method*, EPA/600/4-77/027A5, U.S. Environmental Protection Agency, Research Triangle Park, NC, June (1992b).

U.S. EPA (U.S. Environmental Protection Agency), *Lower Rio Grande Valley Environmental Monitoring Study: Report to the Community on the Pilot Project*, U.S. Environmental Protection Agency, Research Triangle Park, NC, June (1994).

U.S. EPA (U.S. Environmental Protection Agency), *Quality Assurance Handbook for Air Pollution Measurement Systems. Volume IV: Meteorological Measurements.* EPA/600/R-94/038d, U.S. Environmental Protection Agency, Washington, DC, March (1995).

U.S. EPA (U.S. Environmental Protection Agency), *Air Quality Criteria for Particulate Matter. Volume I,* EPA/600/P-95/001aF, U.S. Environmental Protection Agency, Washington, DC April (1996a).

U.S. EPA (U.S. Environmental Protection Agency), *Air Quality Criteria for Particulate Matter. Volume II,* EPA/600/P-95/001bF, U.S. Environmental Protection Agency, Washington, DC, April (1996b).

U.S. EPA (U.S. Environmental Protection Agency), *Compendium Methods for the Determination of Toxic Organic Compounds in Ambient Air,* Second edition, EPA/625/R-96/010b, U.S. Environmental Protection Agency, Cincinnati, OH, January (1997a).

U.S. EPA (U.S. Environmental Protection Agency), “National ambient air quality standards for particulate matter; final rule”, *Fed. Regist.* 62: 38651-38701, July 18 (1997b).

U.S. EPA (U.S. Environmental Protection Agency), “Revised requirements for designation of reference and equivalent methods for PM_{2.5} and ambient air quality surveillance for particulate matter; final rule”, *Fed. Regist.* 62: 38763-38854, July 18 (1997c).

U.S. EPA (U.S. Environmental Protection Agency), *United States-Mexico Border Environmental Indicators 1997*, EPA909-R-98-001, U.S. Environmental Protection Agency, Washington, DC, pp. 2-3, 6-11, June (1998).

Vermette, S.J., M.E. Peden, T.C. Willoughby, S.E. Lindberg, and A.D. Weiss, “Methodology for the sampling of metals in precipitation: results of the National Atmospheric Deposition Program (NADP) pilot network”, *Atmos. Environ.* 29: 1221-1229 (1995).

Vossler, T.L., C.W. Lewis, R.K. Stevens, T.G. Dzubay, G.E. Gordon, S.G. Tuncel, G.M. Russwurm, and G.J. Keeler, “Composition and origin of summertime air pollutants at Deep Creek Lake, Maryland”, *Atmos. Environ.* 23: 1535-1547 (1989).

Wadden, R.A., P.A. Scheff, J.E. Franke, L.M. Conroy, and C.B. Kiel, “Determination of VOC emission rates and compositions for offset printing”, *J. Air Waste Manage. Assoc.* 45: 547-555 (1995).

Wallace, L., W. Nelson, E. Pellizzari, L. Michael, R. Whitmore, H. Zelon, T. Hartwell, R. Perritt, and D. Westerdahl, “The Los Angeles TEAM Study: Personal exposures, indoor-outdoor air concentrations, and breath concentrations of 25 volatile organic compounds”, *J. Exp. Anal. Environ. Epidemiol.* 1: 157-192 (1991).

Warneck, P., *Chemistry of the Natural Atmosphere*, Academic Press, San Diego, 1988.

Watson, J.G., Chow, J.C., Lu, Z., Fujita, E.M., Lowenthal, D.H., Lawson, D.R., Ashbaugh, L.L. "Chemical mass balance source apportionment of PM₁₀ during the Southern California Air Quality Study", *Aerosol Sci. Technol.* 21: 1-36 (1994).

Watson, J.G., "Critical review discussion. Ambient particles and health: lines that divide", *J. Air Waste Manage. Assoc.* 47: 995-996 (1997).

Westerholm, R., and H. Li, A multivariate statistical analysis of fuel-related polycyclic aromatic hydrocarbon emissions from heavy-duty diesel vehicles", *Environ. Sci. Technol.* 28: 965-972 (1994).

Whitmore, R.W., F.W. Immerman, D.E. Camann, A.E. Bond, R.G. Lewis, and J.L. Schaum, "Non-occupational exposures to pesticides for residents of two U.S. cities", *Arch. Environ. Contam. Toxicol.* 26: 47-59 (1994).

Wilson, W.E., and H.H. Suh, "Fine particles and coarse particles: concentration relationships relevant to epidemiologic studies", *J. Air Waste Manage. Assoc.* 47: 1238-1249 (1997).

Winberry, W.T., N.T. Murphy, and R.M. Riggin, *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air*, EPA/600/4-89/017, U.S. Environmental Protection Agency, Research Triangle Park, NC (1988).

Winberry, W.T., N.T. Murphy, and R.M. Riggin, *Methods for Determination of Toxic Organic Compounds in Air, EPA Methods*, Noyes Data Corp., Park Ridge, NJ (1990).

Yamasaki, H., K. Kuwata, and H. Miyamoto, "Effects of ambient temperature on aspects of airborne polycyclic aromatic hydrocarbons", *Environ. Sci. Technol.* 16: 189-194 (1982).